UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,421	03/26/2004	Fusao Ishiguchi	04536.034001	2620
22511 OSHA LIANG	7590 12/07/200 L.L.P.	EXAMINER		
1221 MCKINN		HAILU, TESHOME		
SUITE 2800 HOUSTON, TX	K 77010		ART UNIT	PAPER NUMBER
ŕ			2139	
			NOTIFICATION DATE	DELIVERY MODE
			12/07/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@oshaliang.com buta@oshaliang.com

		_141			
	Application No.	Applicant(s)			
•	10/811,421	ISHIGUCHI, FUSAO			
· Office Action Summary	Examiner	Art Unit			
	Teshome Hailu	2139			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl will apply and will expire SIX (6) MONTH b. cause the application to become ABAN	ATION. by be timely filed IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status	,				
1) Responsive to communication(s) filed on 26 M	farch 2004.				
, ,	57 200				
3) Since this application is in condition for allowa	nce except for formal matter	s, prosecution as to the merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-8 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-8 is/are rejected.					
7) Claim(s) is/are objected to.	ur alaction requirement				
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on <u>26 March 2004</u> is/are:					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached (Office Action of form P1O-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. § 1	119(a)-(d) or (f).			
1. ☐ Certified copies of the priority document	ts have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prio					
application from the International Burea	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not re	eceived.			
Attachment(s)	Λ\	mman/ (PTO 413)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper No(s)/	mmary (PTO-413) Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Info	ormal Patent Application			

Page 2

Application/Control Number:

10/811,421 Art Unit: 2139

DETAILED ACTION

- 1. Claims 1-8 are pending.
- 2. This office action is in reply to an amendment filed on September 20, 2007. Claims 1-8 have been amended.

Response to Amendment

3. Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of the new ground(s) of rejection.

Specification

4. The disclosure is objected to because of the following informalities: Paragraph 31 of the disclosure teaches the invention in reference to FIG. 4. The block numbers (43) stated in this paragraph does not match with FIG. 4. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doiron et al (Doiron), US 5,481,610, and further in view of Lotspiech, US 6,883,097.

Application/Control Number:

10/811,421 Art Unit: 2139

As per claim 1 Doiron discloses:

Equipment for a digital video disc, comprising: a memory in which key data associated with information on a digital video disc is recorded in advance; (abstract, line 1-6, Doiron disclosed about digital radio key storage for different cryptosystems (DES, VGE, VGS, etc.). According to Doiron, the cryptographic keys are stored in non-volatile memory such as EEPROM). Also see fig. 2.

Means for processing the information on said digital video disc using said key data read from said memory; (column 1, line 5-13, Doiron teach about digital radios and secure mode of digital radios that secure messages by encrypting and decrypting).

Doiron does not explicitly discloses, the information on a digital video disk. However, on the same field of endeavor, Lotspiech teach this limitation as, (abstract, line 1-7, Lotspiech disclosed about the system of protecting content on recordable media (DVD, Flash memory media) by providing a media key block for encrypting information on recordable media).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention was made, to modify the teaching of Doiron and include the above limitation using the teaching of Lotspiech. The modification would be obvious to one skilled in the art to substitute one method for the other to achieve the predictable result of securing information in electronic media using the key data stored in memory.

Wherein random data is written around said key data in said memory. (Column 4, line 18-37, Doiron disclosed about hiding the cryptographic keys by burying somewhere in a pseudo-random data. As a result, the stored key itself looks like the stored random data and it would be hard for an attacker to identify the cryptographic keys from the random data). Also see the table in fig.3

As per claim 2 Doiron discloses:

The equipment for a digital video disc according to claim 1, wherein said key data is an encryption key for equipment for encrypting and recording the information on said digital video disc.

Application/Control Number:

10/811,421 Art Unit: 2139

(Column 8, line 1-33, Doiron disclosed about EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

As per claims 3 and 4 Doiron discloses:

The equipment for a digital video disc according to claim 2, wherein said key data is a decryption key for equipment for decrypting the information read from said digital video disc. (Column 8, line 1-33, Doiron disclosed about EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

As per claims 5 and 8 Doiron discloses:

A method of recording in advance prescribed information to be protected against unauthorized access in a memory, comprising the steps of: (column 9, line 33- 52, Doiron teach how the meaningful data stored in memory with random data 88 and also disclosed that it is very difficult for an attacker to identify the meaningful information like cryptographic keys from the random data). Also see the memory table on fig. 3.

Writing said prescribed information in an unused area of said memory; (abstract, line 1-6, Doiron disclosed about digital radio key storage for different cryptosystems (DES, VGE, VGS, etc.). According to Doiron, the cryptographic keys are stored in non-volatile memory such as EEPROM). According to the application, prescribed information is a key data.

Writing random data in an area within said unused area adjacent to said prescribed information written in said step of writing. (Column 4, line 18-37, Doiron disclosed about hiding the cryptographic keys by burying somewhere in a pseudo-random data. As a result, the stored key itself looks like the stored random data and it would be hard for an attacker to identify the cryptographic keys from the random data). Also see random data 88d, 88e and cryptographic key stored in memory table (fig.3).

Art Unit: 2139

As per claim 6 Doiron discloses:

The method of recording prescribed information according to claim 5, wherein said memory is mounted on equipment for a digital video disc, (see the EEPROM on fig. 2).

Said prescribed information is key data associated with information on a digital video disc. (Column 9, line 33-52, Doiron teach how the meaningful information like cryptographic keys stored in memory).

As per claim 7, Doiron discloses:

The method of recording prescribed information according to claim 5, wherein said prescribed information is a password. (Column 8, line 1-33, Doiron disclosed about EEPROM 76 that stores a key table 78 containing cryptographic keys to be used for encrypting and decrypting purpose by encryptor/decryptor 74).

Conclusion

7. The prior art made or record and not relied upon is considered pertinent to applicant's disclosure.

TITLE: Optical disc copy management system, US 6,535,858.

TITLE: System for copy protection of recorded information, US 6,580,682.

TITLE: Data processing device, Data storage device, Data processing method, and Program providing medium for storing content protected under high security management, US 6,834,333.

TITLE: Public key certificate revocation list generation apparatus, Revocation judgment apparatus, and Authentication system, US Pub. Number 2003/0217265.

10/811,421 Art Unit: 2139 Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teshome Hailu whose telephone number is (571) 270-3159. The examiner can normally

be reached on Mon-Fri 7:30a.m. to 5:00p.m. PST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz

R. Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

Teshome Hailu

November 30, 2007.

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100